

We claim:

1. A process for the production of bulk materials containing small quantities of one or more active substances, comprising:
  - a) dissolving at least one active substance in water or optionally emulsifying said active substance with the addition of an emulsifier, to obtain an active substance composition and
  - b) applying said active substance-composition containing water, active substance and optionally emulsifier on to bulk material and mixing the bulk material with said active substance composition.
- 10 2. The process according to claim 1, wherein the bulk material is mixed feed.
3. The process according to claim 1, wherein the active substance is applied in a quantity of 10 ppm to 0.5 wt.%, based on the bulk material.
- 15 4. The process according to claim 1, wherein the active substance is a member selected from the group consisting of vitamins A, D, E, nicotinamide, other B vitamins, provitamins or their esters and mixtures thereof.
5. The process according to claim 1, wherein a carotinoid or a xanthophyll is used as the active substance.
- 20 6. The process according to claim 1, wherein an enzyme is the active substance.
7. The process according to claim 1, wherein an amino acid is the active substance.
- 25 8. The process according to claim 1, wherein an aqueous emulsion or solution containing an active substance content of 1 to 60 wt.%, based on total quantity, is used.

9. The process according to claim 1, wherein an aqueous emulsion or solution containing an active substance content of 1 to 50 wt.%, based on total quantity, is used.

5 10. The process according to claim 4, wherein an aqueous emulsion or solution containing an active substance content of 1 to 60 wt.%, based on total quantity, is used.

11. The process according to claim 5, wherein an aqueous emulsion or solution containing an active substance content of 1 to 60 wt.%, based on total quantity, is used.

10 12. The process according to claim 6, wherein an aqueous emulsion or solution containing an active substance content of 1 to 60 wt.%, based on total quantity, is used.

15 13. The process according to claim 7, wherein an aqueous emulsion or solution containing an active substance content of 1 to 60 wt.%, based on total quantity, is used.

14. The process according to claim 1, wherein the emulsifier is present in a quantity of 0.1 to 15 wt.%, based on the quantity of active substance.

20 15. The process according to claim 1, wherein said applying takes place within a period of > 0 min to 24 h after production of the active substance composition.